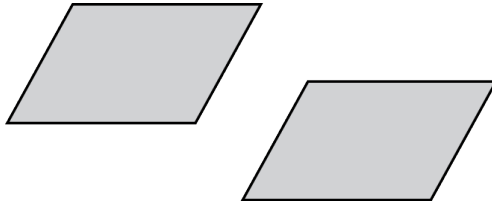


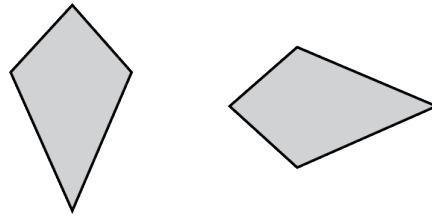
## 2.2 Practice A

Tell whether the right figure is a translation of the left figure.

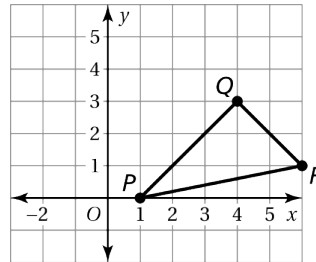
1.



2.

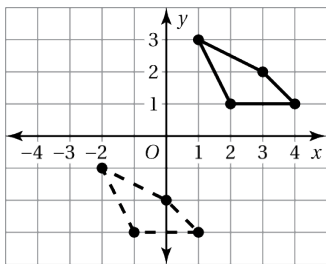


3. Translate the triangle 3 units left and 2 units up. What are the coordinates of the image?



The vertices of a triangle are  $A(-2, 0)$ ,  $B(0, 3)$ , and  $C(2, 2)$ . Draw the figure and its image after the translation.

4. 4 units down
5. 2 units right and 1 unit up
6. Describe the translation from the solid line figure to the dashed line figure.

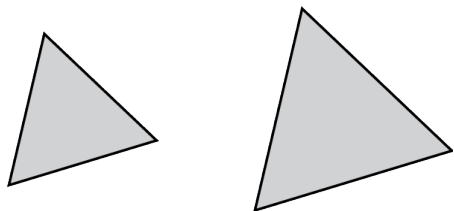


7. In Exercise 6, describe the translation from the dashed line figure to the solid line figure.

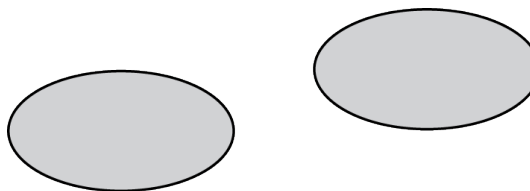
## 2.2 Practice B

Tell whether the right figure is a translation of the left figure.

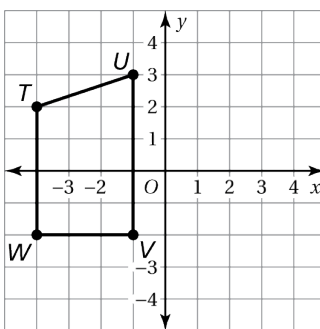
1.



2.



3. Translate the figure 5 units right and 1 unit up. What are the coordinates of the image?



Describe the translation of the point to its image.

4.  $(1, 5) \rightarrow (-1, 1)$
5.  $(-2, -3) \rightarrow (-2, 4)$
6. A square is translated 3 units left and 5 units down. Then the image is translated 4 units right and 2 units down.
  - a. Describe the translation of the original square to the ending position.
  - b. Describe the translation of the ending position to the original square.
7. You rearrange your bedroom. Tell whether each move is an example of a translation.
  - a. You slide your bed 1 foot along the wall.
  - b. You move your desk and chair to the opposite wall.
  - c. You move your bed stand to the other side of the bed.